



Final Technical Report February 1978

DOVIAL STRUCTURED DESIGN DIAGRAPMER (JSDD) Volume III Program Description, part 2.

- G. Goddard H. Whitworth B. Strovink

The Charles Stark Draper Laboratory, Inc.

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ROME AIR DEVELOPMENT CENTER Force Systems Command Griffiss Air Force Base, New York 13441 Because of the size of this volume, it has been divided into four parts.

Part 1 contains pages 1/2 - 123, 649 - 657, Part 2 contains pages 124 - 344,

Part 3 contains pages 345 - 592, Part 4 contains pages 593 - 648.

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PART 2

This Part contains pages 124 - 344 which consists of Section 7.

Section 7

Phase I Structured Design and Invocation Diagrams.

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Section 7

Phase 1 Structured Design and Invocation Diagrams



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G S DRAPER LABORATORY JOYLAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAM OF CAT

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* Satisfairs # * This last established

*IF BYTE (\$0, 18) (SF3) EQ 1H([) . *************************

*SAJ(\$0\$) = 6H() \$

**PREVENTS OVERFLOW OF BYTE **
**II = 1 \$
**DONE = 6 \$
**SF6 = 1H() \$
CLEARS OUT CHARACTER STRING** *********************

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER. Design Diagram of Cnvert

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G S DRAPER LABORATORY JOYTAL STRUCTURED DESIGN DEAGRAMER DESIGN DIAGRAN OF CHUERT

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design diagram of Synthesize

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C S DRAPER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRAMER Design diagram of synthesize

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAPHER BESIGN DIAGRAM OF SYNTHESIZE

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAM OF SYNTHESIZE

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134 FROM 27 ** ********************************	ORIF 1 S	L L L L L L L L L L L L L L L L L L L	**************************************		

G S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Synthesize

- 35 FROM 27 *

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANMER	
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C S DRAPER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAM OF SYNTWESIZE			2) ED	!	
C S DRAPER LABORATORY . DESIGN DIAGRAM OF SYNTI	S FRON 28 .	•	*IF MAINP CALLS(SIDLOOPS) ED *	• TEMP10 S	

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAM OF SYNTHESIZE

* 37 FRON 28 *

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. .. MESSAGE WILL APPEAR ON .. INVOCATION DIAGRAM..

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER DESIGN DIAGRAM OF SYNTHESIZE

* 38 FROM 26 *	

*IF SYMBUF (SIDLOOPS) EQ TEMPID *	***************************************
	NAME ALREADY CALLED
*************************	****************
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*IDLOOP = IDLOOP + 1 \$ *	

SECTION STREET ON ANAMORING MEMBERSHIP DESIGN SECTION SECTION

UCTURED DESIGN DIAGRAMER					** SYMBUF*PTR EQ MAX*SYMBUF & ***********************************	***OUTITEMPC, RPTERRI S	* TABLE.* *SYNBUF.PTR = MAX*SYMBUF - 50 8*	SYMBUF (SSYMBUF PTR - 18) E SON (*** SYMTAB OVERFLOM IN *** PMASEL) 8	
C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANMER Design Diagram of Synthesize	• 39 FROM 28 •	••	**************************************	SYMBUF.PTR = SYMBUF.PTR + 1 8 •	THE SYMBUF PTR EG MAX-SYMBUF 8			00 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design Diagram of Stack"Dump

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMICR Design diagram of Print-Production

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design Diagram of Print-Production

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C S DRAFER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRAMMER Design Diagram of Err

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C S DRAPER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRAMMER Design Diagram of Get*Mum

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** SEE IF IT'S THE START OF A COMMENT ** ********************* SINGLE MOST CRITICAL
PROCEDURE IN THE PROCRAM.
ISSUES CALLS TO SCANNER IN
SUCH A MAY AS TO SUPPORT TEXT
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AND FREE-FORM COMMENTS.
HA INTAINS TOKEN STACK FOR PPROC SCAN'CALL(READ'CALL) 8 . FITEM READ CALL INTEGER 8 **
FITEM DONE 8 \$
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TEETTH(TOKEN EQ.QUOTE) AND 50			• •• THERE ARE SOME LOOKAHEAD • TOKENS ALREADY STACKED ••	**************************************	elf tSPTR LS TSMAX & ***********************************	ARE OCKAHEAD OR NONE
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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANMER Design diagram of Scan"Call

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANMER DESIGN DIAGRAM OF SCAN"CALL

EQ 1) ANDCOMENT = TYPE3 \$COMPENT = TYPE3 \$	TYPE S .	*** **********************************	**************************************
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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Scan"Call

* EXCEPTION # D & *

C S DRAPER LABORATORY JOYTAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAM OF SCAN-CALL

• 52 FROM 48 •

**************************************	**************************************	*BUFFER'IN \$ *BUFFER'IN \$ *TOTE IN FOLLOWS, MUST* * PROCESS**
FEITHTOKEN EQ CHARACTERS &		ORIF 1 8BUFFR'IN 8ORIF 1 8BUFFR'IN 8DEFR'IN

C S DRAPER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Scan-Call

TAN TAN

COOKE O S	+-00RIF TGG(&ASIS\$) EQ 1 \$ 460C = SPACES(BLANKS) \$ + + + + + + + + + + + + + + + + + +	EXPAND FLAG IS NOT SET**		TETTH ***TOG(SEXPANDS) NO 1 AND ***** ******************************	OFFEITH *TOKEN EQ MACRO \$ *	NAME OF MACRO IF IS NOT SET SISS) ED 1 S SISS) ED 1 S SISS ED 1 S
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err ToG(SEXPANOS) EQ 1 S ---- SBUFFE, IN S -

. .. WRITE OUT IF EXPAND FLAG SET

off Token Eq. 62 8 ----bone = 0 8 **

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C S DRAPER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRANMER Design diagram of Scan-Call

. 55 FROM 49 .

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G S DRAPER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of toggle*Proc

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8 T # 2000	**************************************
TEMPH1 E THOUSEN,	TEMPHI = IM(1) &
	TE BYTESTEMPIL • 6.
TEMP1 - 100 OF TOGGLE - 15) (C TOKEN) EQ 14(°) 8	TE BYTE(STEMPIL 6, 18)(C'TOKEN) EQ 1H(') 8
TE BYTE STEMPLE & TOGGLE ** IS 1C TOKEN EQ 1H(*) \$ ** IS 1C TOKEN EQ 1H(*) \$ ** TEMPH = 1H(1) \$ ** TEM	TENPH = 1H(1) \$
TEMP1 - 100 OF TOGGLE - 15) (C TOKEN) EQ 14(°) 8	TE BYTE(STEMPIL 6, IS)(C'TOKEN) EQ 1H(') 8 TEMPH = 1H(1) 8
OKEN, "HEY, WE MAVE A TOGGLE. "IF BYTE(STEMP11 . 6, 15) (C"TOKEN) EQ 14(") 8 "TEMP1 . 14(1) 8	OKEN, HEY, WE MAVE A TOGGLE. IF BYTE(STEMPIL 6, IS)(C'TOKEN) EQ 1H(') 8 TEMPH = 1H(1) 8
OKEN, OKEN, "NEY, WE MAVE A TOGGLE "IF BYTE (STEMPIL 6, "IS) (C"TOKEN) EQ 1H(") 8 "TEMPIL 1H(1) 8	OKEN, OKEN, THEY, WE MAVE A TOGGLE. TE BYTE(STEMPIL . 6. 15) (C TOKEN) EQ 1H(7) 8. TEMPHI = 1H(1) 8.
OKEN, OKEN, TERM, TE	OKEM, OKEM, TE BYTE (STEHILL 6, TE BYTE (STEHILL
OKEN, OKEN, TOKEN, TENTERSTRIPIT, 6, TENTERSTRIPIT, 6, TENTHI EINCOTOKEN,	OKEN, OKEN, OKEN, TOKEN, TENTERSTERPIL 6. 15) (C'TOKEN) EQ 1H(') 8. TENPHI = 1H(1) 8.
OKEN, TER B R B R B R B R B TER	TOKEN S
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ANNO RESETS ANNO RESETS COTER 8 TER 8 R 8 R 8 R 8 R 9 TER	ANHO RESETS COTER 8
T. WE MAVE A TOGGLE. FISTEMPLI 6. FOKEN EQ 1M(*) 8. FINCIN E. FINCI E. FINCIN E. FINCI E. FINCIN E. FINCI E. FINCIN E. FINCIN E. FINCIN E. FINCI E. F	V. WE MAVE A TOGGLE. EISTERPLI 6. TOKEN EQ 1M(.) 8. THEN ELSTERPLI 6. THEN ELSTERPLI

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of toggle-proc

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• TEMPN2 = TOGC(SIS) S •
*TEMPII = SUBSTRIC*TOKEN,

• TEMPII + 1. TEMPIZ - TEMPII -*

• 1) $
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C S DRAPER LABORATORY JOYTAL STRUCTURED DESIGN DIAGRAMER Design diagram of Buf

PROC BUF (FLAG-LAST. • FLAG-TRAIL) &	LITE PROCEDURE OF TIM, PEFFORMS TIMG OPERATIONS AND TO F2-BUFFER. S ACTUAL TEXT IF ASIS AND CRLF FLAG ARE	LAST B S .	IST AND (TOG(&ASIS\$) ** *********************************	TE TEMPLE EQ SPACES(1) & "CHARCOUNT E CHARCOUNT E C	\$) MQ i AND (NOT * **********************************	off Toginalist) Ed 1 S *8c0 = Calispaces(energy) and energy and
PROC BUF (FL	BUFFERING BUFFERING FORMITING WRITES TO OUTPUTS AC	ITEN FLAG'LA	NO 1) 8		F TOGGASIS FLAG TRAIL)	or together

C S DRAFER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANMER DESIGN DIAGRAN OF BUF

efilErout(ASIS'STAT) & e		**************************************	**TEMPIA = MAXCOL - **LENGTH(TEMPHA) \$ **TEMPIZ = LENGTH(BCD) - TEMPIA ** **TEMPIZ = SUBSTR(BCD, 1, ** **TEMPIA) \$ **TEMPIA **	*F2*BUFFE(\$BUF*LINES - 1\$) = * * TEMPH1 \$	
IF CRLF EQ 1 AND CHAR-COUNT NG		orsecessosssssssssssssssssssssssssssssss		17.62 1.54 (1.54 km) (1.74 km) (1.54	*F2*BUFFER(\$BUF*LINES\$) = ML S* *BUF*LINES = BUF*LINES + 1 \$ *TEMM1 = F2*BUFFER(\$BUF*LINES + 1 \$) \$ **********************************
!#:.!	STRINGL NOW, LET'S PUT IT OUT. CHAR'COUNT = CHAR'COUNT + CHAR'COUNT = CHAR'COUNT + CHAR'COUNT = F2'BUFFERISBUF'LINES"	IF LENGTH(TEMPH1) + - LENGTH(BCD) GR MAXCOL 8			FEMAL SALVESON STATES SALVESON

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C S DRAFER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER
DESIGN DIAGRAN OF BUF
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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAPHER Design diagram of Buffer'in

				-FLAG-LAST = 1 S FACE DELETE LAST SPACE 65 FLAG-TRAIL = 1 S DON'T LEAVE A TRAILING SPACE 66	
			S ************************************	FOR I = 0. 1. HAX'NOSPAB \$IF NOSPAB(SIS) EQ TOKEN \$FOR I = 0. 1. HAX'NOSPAA \$FOR NOSPAA(SIS) EQ TOKEN \$FOR I = 0. 1. HAX'NOSPAA \$FOR NOSPAA(SIS) EQ TOKEN \$FOR I = 0. 1. HAX'NOPAIR \$	**************************************
PROC BUFFERS	PERFORMS TEXT FORMATTING	FITEM FLAG-LAST B \$ FITEM TEMPLE B \$ FITEM TEMPLE INTEGER \$ FLAG-TRAIL B \$ FLAG-TRAIL B \$ FLAG-LAST = 0 \$ FLAG	erection to the control of the contr		AN THE STATE OF TH

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Buffer-in

G S DRAFER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER. Design Diagram of Buffer'in

. 65 FROM 63 *

*IF LAST TOKEN EQ CHARACTERS \$ *---*FLAG*LAST = 0 \$ *

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海水等医 中央

C S ORAFER LABORATORY JOVIAL STRUCTURED OESTGN DIAGRAMER Design Diagram of Buffer'in

* 66 FROM 65 *

*IF MOPAIR1(SIS) EQ LAST TOKEN *

Personal State Control of the Contro *************************

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Get*Token

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・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	#TOKEN #(/ TOKEN /) \$ #BCD = TSC(STSBEGINS) \$ #BLANKS = TSCR(F(STSBEGINS) \$ #MACRO*FLAG = TSMFLAG(STSBEGINS*
	TSECIN # TSECIN + 1 % *********************************
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のでは、10mmのでは、	*TSPIR # TSBEGIN \$ ***RESEI LOOKHEAD PIR **
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G S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design diagram of Stack-Token

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*PROC NUMJICAA) 8 .

OUTPUTS A NUMBER TO THE TERNIMAL. USED IN PRELIMINARY DEBUGGING PMASES. NOT USED IN CURRENT PROGRAM

*ITEM AA I 36 S **
•ITEM BB M 6 \$ **
•ENCOOF(6M(f IGF), AA = 66) \$ **
•TRHOUT 18, 6) \$ **
•TRHOUT 18, 6) \$ **

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C S DRAFER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRAMER Design Diagram of Compilation*Loop

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C S DRAPER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRAMER Design diagram of Compilation*Loop

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER DESIGN DIAGRAN OF COMPILATION*LOOP

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C S DRAPER LABORATORY JOVÍAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAM OF CHAPTIATION: 1008

DESIGN DIAGRAM OF COMPILATION LOOP
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G S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAM OF COMPILATION*LOOP	76 FRON 71	FIFEITH **+**READI(STOPS) NQ TOKEN \$ ***********************************

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C S DRAFER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER DESIGN DIAGRAM OF COMPILATION*LOOP

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANMER Design Diagram of Main-Procedure

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAPHER Design Diagram of Getcro

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design diagram of Getgrd

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Getgrd

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C S DRAFER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design diagram of Getgrd

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G S DRAPER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRAPHER DESIGN DIAGRAM OF INDEX

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER DESIGN DIAGRAM OF INDEX

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design diagram of initialize

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAM OF INITIALIZE

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANMER Design diagram of Scam

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANMER Design diagram of Scan

4	T * DIRECT CODE BEING SCANNED - PICK UP ALL TEXT UP TO THE KEYHORD JOVIAL PASS THE TOKEN - CHARACCTERS **	TEMPOCHAR = GH(JOVIAL) & * TEMPOCHAR = INDEX(TEXT) & * TEMPOCHAR) & * **********************************	of TERHINATE EQ 0 8 133.	*** TERMINATE *** TERMINATE *** TERMINATE *** TERMINATE *** TERMINATE *** *** *** *** *** *** *** *** *** *	** PICK UP ALL TEXT UP TO THE ** RIGHT PAREN ** ** PASS THE TOKEN CHARACTERS	*TEMP"CHAR = 1H()) \$ * *TEMINATE = INDEX(TEXT,* * TEMP"CHAR) \$ * * TEMP"CHAR) \$ *	·IF TERMINATE EQ 0 \$ ** 134*
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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design Diagram of Scan

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C S DRAFER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAM OF SCAM

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S 1 *TENNA = SPACES(1) & * **IF COMMENT***********************************	ABOVE CODE GETS RID OF LEADING BLANKS FOR FORMATTER	TEMMA = ZM(**) S "TEMMA = ZM(**) S "TEMMA = ZMOEK(TEXT, TEMPMA) S "TEMPLA = MOEK(TEXT, TEMPMA) S		AGAINST (**,*(/*, ETC.) **CP = CP + 1 \$ **********************************	STRUCTURED EXTENSIONS)
CONTENTS 1		• • •		AGAINST (*** C.C.**	+-f9 EXCEPTION CASE 9 STRUCTURED EXTENSIONS

### ##################################	00 WHILE (BYTE 185 + CP. *142*	PC = 1H(1) S = INDEXCIENT.	FKK EQ 0 \$KK = TEXTLINIT \$	
	+			

olf CP LQ TEXT*LIMIT \$ ---* 112* ****************** *************** ***************** *8CD = SUBSTR(TEXT, 1, CP - 1)* *RETURN S *********************** ******************** +-+(1 -- HAVE (OR (* OR (/ OR (\$ * ****************************** ************************ .. SELECT ON CHARACTER TYPE .. **************** C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Scan *DO CASE ICHARTYPE (SUBSTRITEXT. * *********************** ******************** ************* * 106 FROM 101 *

*IF TOKEN NO LEFT-PAREN \$ *--* 113*

8CD = SUBSTR(TEXT, 1, CP - 1)

•••••

C. S. DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design diagram of Scan

IF TOKEN EQ LEFT PAREN \$ 114*		RI (TEMP CHAR)	1) EQTOKEN = RIGHT'SUBS &	VIDE 8	CP. 1) EQTOKEN = RIGHT-ABS & CP. 1) EQTOKEN = RIGHT-ABS & CP = CP + 1 & CP + 1 & CP = CP + 1 &	7. 1. CP - 13.
, L	-RETURN S .	TOKEN = DOLLAR \$TOKEN = DOLLARTEMP-CHAR = 14(1) \$ -TEMP-CHAR = LH(1) \$ -TEMP-CHAR = CNVERITTEMP-CHAR)	SUBSTRIFET, CP, 1) EQ	TOKEN & DIVIDE & ASSUME / ASSUME	* F CP LQ TEXT*LIMIT AND * SUBSTRITEXT, CP, 1) EQ * TEMP*CHAR \$	* SCD = SUBSTRITEXT, L. CP - L)* ** RETURN \$
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G S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design diagram of Scan

OR MANTISSA OR * *********************************	J. CP LG TEXT-LIMIT 8 115-	+ ARTICAN S	ASSUME FOR FE OR F	CP LG TEXTS INIT'S	TF TOKEN NG STAR & WCP H CP + 1 & CHARACTER TOKEN * *	BCD =	RETURN IT) RETURN IT) RETURN IT) RETURN IT) RETURN IT)
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C. S. DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMIER. Design diagram of Scam

	TOKEN = PRIME & ASSUME PRIME * ASSUME PRIME *	* SUSTRIEKT, CP. 1) EQ ***********************************	OCO = SUBSTRITEXT, 1, CP - LV* * * * RETURN \$	DD WHILE (CP LQ TEXT'LIMIT AND 120" - CHARTYPE (SUBSTR(TEXT, CP, 1)) 120" - EQ DIGIT)	TEMP-CHAR = SHC,) & TEMP-CHAR) **	
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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAPHER Design diagram of Scam

DO WHILE (NOT DONE AND CP LQ TEXT_LIMIT) BCD = SUBSTR(TEXT, 1, CP - 1) BCD LM = CP - 1 & BCD LM = CP - 1	13		17:11	158		1		
	TEXT-LIMIT)	BCD = SUBSTR(TEXT, 1, CP - 1)		IF CP - 1 LQ RESERVED LIMIT S	. IT'S NOT A KEYMORD SEE IT HAS BEEN DEFINED IN A DIRECTIVE.		NEW CASE 9 ADDITION	The second secon
	* KEYMORO OR DEFINED NAME 1			••••••		10 mm	20.05(E) 1	

C S DRAPER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Scan

	129*			**************************************	
+-fig STAND ALONE SPECIAL * **********************************	*FOR I # 1, 1, LENGTHS(\$1\$) - 1 * \$ * \$ * * * * * * * * * * * * * * *	"IF BYTE (\$6, 1\$) (BCD) EQ 1H([] "	** F BYTE (\$6. 15) (8CD) EQ 1H(1) **	TILEGAL CHARACTERS FALL HERE "	**************************************
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C. S. DRAPER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRAMER Design diagram of Scan

	TEXT. CP	*** 1.1) S CONSTRITEMPCHA * **********************************	ORIF TEMP-STRING EQTOKEN = LEFT-ABS &TOKEN = LEFT-ABS &	+-ORIF TEMP'STRING EQTOKEN = LEFT'SUBS &TOKEN = LEFT'SUBS &TOKEN = LEFT'SUBS &
112 FROM 186 *	OTEMP STRING = SUBSTR(TEXT, CP., 1) 8 OTEMP CHAR = 3H(*/\$) 8 OTEMP CHAR = GNVERTITEMP CHAR) 9	OFFERN TEMP-SIRIN	ORIF 16	1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAN OF SCAN

* 113 FROM 106 *

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DESIGN DIAGRAN OF SCAN	114 FROM 107 *	OFFICE OF TOKEN EQ IDENT 8 .		
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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Scan

115 FROM 108 e

E HP C CHAR)	**SUBSTRITEXT, CP, 1) EQ * *********************************	+-*ORIF CHARTYPE(SUBSTR(TEXT, CP, + +++********************************	**************************************
TEMP-CHAR = IH(.) S * TEMP-CHAR = CNVERI(TEMP-CHAR)* * S *******************************	*IFEIIH *SUBSTRITEXT, CP. 1) EQ	+-*ORIF CHARTYPE (S	

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER
DESIGN DIAGRAN OF SCAN

116 FROM 108 **

116 FROM 108 **

117 FROM 108 **

118 FROM 108 **

119 FROM 108 **

119 FROM 108 **

119 FROM 108 **

119 FROM 108 **

110 FROM

Water and the Colors

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design diagram of Scan

* 119 FROM 109 * **********************************
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*********************** --TEMP-CHAR = 3M(s...) \$ --******************** C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Scan . 123 *************** . . TEMP-CHAR 8 erecess conservations con 122° arrests con 122° ********************** ********************* ************************* . 121 FROM 189 * ************* ********** *RETURN S .

. 122 FROM 121 *

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER DESIGN DIAGRAM OF SCAN

. 123 FROM 121 *

**************************************	ORIF CP + 2 LQ TEXT'LINIT AND SUBSTRITEXT, CP + 1, 2) EQ+ - TEMP'STRING \$ DOT IS PART OF AN ELLIPSIS.	**************************************	ORIF 1 SCP = CP + 1 S	**************************************	**************************************

C S DRAFER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANNER Design diagram of Scam

. 124 FROM 116 ·

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. 125 FROM 124 *				
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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design diagram of Scam

. 126 FROM 110 ·

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TEMP'STRING = VOCAB(SIS) & •	PYTE(15. BCD-LNGS) (BCD) EQ . BYTE(15.50 - BCD-LNGS) (BCD) EQ . BCD-LNGS) (TEMP*STRING) \$

LENGTHS(SBCD*LNG - 1S) LS *- * LENGTHS(SBCD*LNG - 1S) LS *- * LENGTHS(SBCD*LNGS) S *- * LENGTHS(

. 127 FROM 110 ·

		* ** FOUND AN ENTRY**	**************************************
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. 126 FROM 127

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design diagram of Scam

						RE TURN 8 .	***************
* 129 FROM 111 *	•	•	•	 *1f 8v1E(18. 181 (800) Eq	. BYTE 1829. 1811VOCABIBIE	•	***************************************

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMYER

130 FROM 111 ** *** *** *** *** *** ***	130 FRON 111 ·	FIRST = CNVERTCTEXT) % o SKKK = CP - 1 % o	18)(TEXT) EQ 1H()]BLANKS = BLANKS + 1 S · · · · · · · · · · · · · · · · · ·	IN ************************************	+-corrected to the state of the
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* TEMPIL) \$
* BCD = CAT(GCD, TEMPIL) \$
* TEMPIL = SUBSTR(TEXT, TEMPIL + * TEMPIL) \$
* TEMPIL = TEXT*LIMIT - * TEMPIL *
* TEMPIL \$
* ***************** -- TEMPIL = MAXCOL - LENGTH (BCD) . *TEMPLE = LENGTH(TEXT) - TEMPLE *TEHPHI = SUBSTRITEXT, 1. ********************* *BCD = CAT(BCD, TEKT) & * *CP = TERHINATE \$ *8C0 = CATTBCD, SUBSTR(TEXT, 1,** * CP - 1) \$ ********************* C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER Design diagram of Scan *TERMINATE = INDEX(TEXT.*
* TEMP-CHAR) & * ******************* * 131 FROM 101 *

*DONE = TRUE 8

C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER Design Diagram of Scam

. 132 FROM 102 *

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER
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** 135 FROM 183 **

** 135 FROM 183 **

** 15 FROM 184 **

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** 15 FROM 185 **

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMER DESIGN DIAGRAN OF SCAN

. 138 FROM 184 *

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANMER INVOCATION CTAGRAM OF THE DESIGN DIAGRAM DATABASE GENERATOR (DDDG)

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C S DRAPER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRAMER
INVOCATION DIAGRAM OF THE DESIGN DIAGRAM DATABASE GENERATOR (DUDG)

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C S DRAPER LABORATORY JOYFAL STRUCTURED JESIGN DIAGRAMHER INVOCATION DIAGRAM OF THE DESIGN DIAGRAM DATABASE GENERATOR (0006)

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER INVOCATION DIAGRAM OF THE DESIGN DIAGRAM DATABLSE GENERATOR (DDDG)

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G S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER INVOCATION DIAGRAM OF THE DESIGN DATABASE GENERATOR (DODG)

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAMMER INVOCATION DIAGRAM OF THE DESIGN BIAGRAM DATABASE GENERATOR (03DG)

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6 S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRAHHER INVOCATION DIAGRAM OF THE DESIGN DIAGRAM DATAJASE GENERATOR (000G)

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANMER Invocation diagram of the Design Diagram Database Generator (DDDG)

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C S DRAPER LABORATORY JOYFAL STRUCTURED DESIGN DIAGRANNER INVOCATION DIAGRAN OF THE DESIGN DIAGRAN DATABASE GENERATOR (030G)

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C S DRAPER LABORATORY JOYIAL STRUCTURED DESIGN DIAGRANMER Invocation diagram of the design diagram database generator (Dudg)

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C S DRAPER LABORATORY JOYIAL STRUCTUZED DESIGN DIAGRANMER Invocation Diagram of the Design Diagram Database Generator (DDDG)

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C S DRAPER LABORATORY JOVIAL STRUCTURED DESIGN DIAGRANMER Invocation Diagram of the Design Diagram Database generator (DDDG)

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THIS LISTING CONSISTS OF OUTPUT FROM THE CHARLES STARK DRAPER LABORATORY'S JOVIAL JS STRUCTURED DESIGN DIAGRAMMER.

PRINCIPAL DESIGNERS AND IMPLEMENTORS

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C S DRAPER LABORATORY JOYTAL STRUCTURED DESIGN DIAGRAMER

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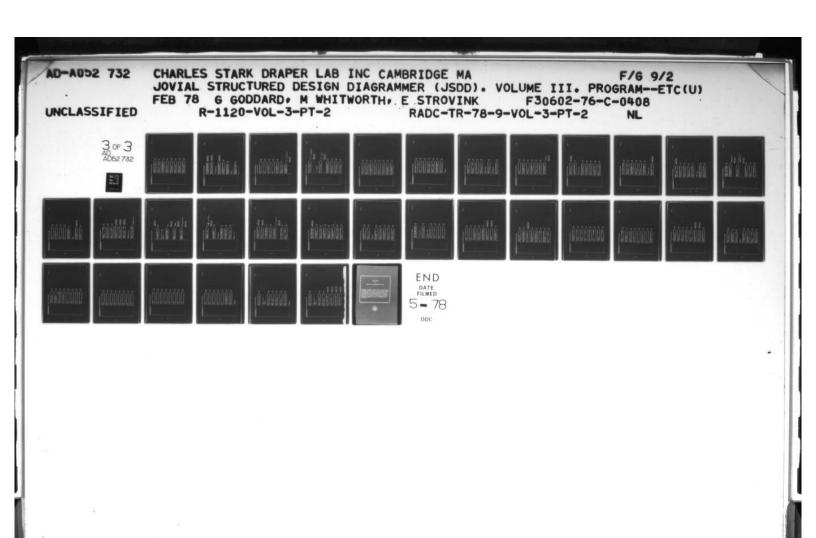
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